10/517,847

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NEWS 3	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS 4	JAN 28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS 5	JAN 28	MARPAT searching enhanced
NEWS 6	JAN 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS 7	JAN 28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS 8	JAN 28	MEDLINE and LMEDLINE reloaded with enhancements
NEWS 9	FEB 05	STN Express, Version 8.3, now available
NEWS 10	FEB 20	PCI now available as a replacement to DPCI
NEWS 11	FEB 25	IFIREF reloaded with enhancements
NEWS 12	FEB 25	IMSPRODUCT reloaded with enhancements
NEWS 13	FEB 29	WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification
NEWS 14	MAR 31	IFICDB, IFIPAT, and IFIUDB enhanced with new custom IPC display formats
NEWS 15	MAR 31	CAS REGISTRY enhanced with additional experimental spectra
NEWS 16	MAR 31	CA/CAplus and CASREACT patent number format for U.S. applications updated
NEWS 17	MAR 31	LPCI now available as a replacement to LDPCI
NEWS 18	MAR 31	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 19	APR 04	STN AnaVist, Version 1, to be discontinued
NEWS 20	APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS 21	APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS 22	APR 28	IMSRESEARCH reloaded with enhancements
NEWS 23	MAY 30	INPAFAMDB now available on STN for patent family searching
NEWS 24	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option

NEWS EXPRESS FEBRUARY 06 CURRENT WINDOWS VERSION IS V8.3,

AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 20:21:59 ON 31 MAY 2008

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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STRUCTURE FILE UPDATES: 30 MAY 2008 HIGHEST RN 1024110-44-8
DICTIONARY FILE UPDATES: 30 MAY 2008 HIGHEST RN 1024110-44-8

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http://www.cas.org/support/stngen/stndoc/properties.html

=>
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chain nodes :
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
26 27 28
ring nodes :
1 2 3 4 5
chain bonds :
3-18 4-6 5-7 7-8 8-9 9-10 10-11 11-12 12-13 12-15 13-14 15-16
16-17 16-19 18-20 19-21 21-22 22-23 23-24 24-25 24-26 25-27 27-28

ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-2 1-5 2-3 3-4 3-18 7-8 8-9 10-11 11-12 12-13 12-15 13-14
15-16 16-17 16-19 18-20 19-21 22-23 23-24 24-25 24-26 25-27
exact bonds :
4-5 4-6 5-7 9-10 21-22 27-28
Isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS
17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS
24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS

L1 STRUCTURE UPLOADED

=> s l1
SAMPLE SEARCH INITIATED 20:22:57 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS

```
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE   **COMPLETE**
                         BATCH    **COMPLETE**
PROJECTED ITERATIONS:              0 TO        0
PROJECTED ANSWERS:                 0 TO        0

L2             0 SEA SSS SAM L1

=> s l1 ful
FULL SEARCH INITIATED 20:23:04 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -         1 TO ITERATE

100.0% PROCESSED         1 ITERATIONS                                 1 ANSWERS
SEARCH TIME: 00.00.01

L3             1 SEA SSS FUL L1

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                                                         ENTRY     SESSION
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FILE LAST UPDATED: 30 May 2008  (20080530/ED)

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=> s l3
L4             1 L3

=> d l4 abbr hitstr abs
```
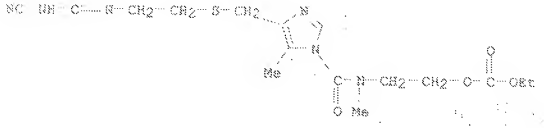

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2003:1006959 CAPLUS
DOCUMENT NUMBER: 140:42180
TITLE: Preparation of nitrogenous heterocycle prodrugs having N-(2-acyloxyethyl)-N-methylcarbamoyl groups
INVENTOR(S): Kamiyama, Keiji; Banno, Hiroshi; Sato, Fuminiko; Matsuoka, Atsushi
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 75 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003106429	A1	20031224	WO 2003-JP7545	20030613
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2489470	A1	20031224	CA 2003-2489470	20030613
AU 2003242388	A1	20031231	AU 2003-242388	20030613
JP 2004307457	A	20041104	JP 2003-169308	20030613
EP 1514870	A1	20050316	EP 2003-733425	20030613
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1678315	A	20051005	CN 2003-818895	20030613
ZA 2005000050	A	20060726	ZA 2005-50	20050105
US 20060293371	A1	20061228	US 2005-517847	20050624
PRIORITY APPLN. INFO.:			JP 2002-175986 A	20020614
			JP 2003-41085 A	20030219
			WO 2003-JP7545 W	20030613

OTHER SOURCE(S): MARPAT 140:42180
IT 636565-78-1P
RL: PRC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of nitrogenous heterocycle prodrugs having N-(acyloxyethyl)-N-methylcarbamoyl groups)

RN 636565-78-1 CAPLUS
CN Carbonic acid,
2-[[[4-[[[2-[[(cyanoamino)(methylamino)methylene]amino]ethy
l]thio]methyl]-5-methyl-1H-imidazol-1-yl]carbonyl]methylamino]ethyl
ethyl
ester (9CI) (CA INDEX NAME)



GI

AB Disclosed is a compound having a group represented by the formula (I)
{X1,
X2 = O, S; W = (un)substituted bivalent hydrocarbon chain, -W1-Z-WZ-;
wherein W1, W2 = bivalent hydrocarbon chain, a bond; Z =
(un)substituted
bivalent hydrocarbon ring or heterocyclic ring, O, S, SO, SO2,
(un)substituted NH; provided that when Z = O, S, SO, SO2, or
(un)substituted NH, then W1, WZ = bivalent hydrocarbon chain; Y = H,
(un)substituted hydrocarbon group or heterocyclic ring; or R is not H,
R
may be linked to W; Y1, Y2 = a bond, O, S, (un)substituted NH; Y =
(un)substituted hydrocarbyl or heterocyclyl] as a modifying group to be
eliminated from a prodrug. It enables prodrug development based on the
modification of a nitrogamous heterocycle, etc., with
N-(2-acyloxyethyl)-N-
methylcarbamoyl groups. For example, 3'-azido-3'-deoxythymidine
(zidovudine), N-cyano-N'-methyl-N''-[2-[(4-methyl-5-imidazolyl)-
methylthio]ethyl]guanidine (cimetidine), (R)-2-[[[3-methyl-4-(2,2,2-
trifluoroethoxy)-2-pyridyl]methyl]sulfinyl]-1H-benzimidazole
[(R)-(+)-lansoprazole], 2-[[(3,5-dimethyl-4-methoxy-2-
pyridyl)methyl]sulfinyl]-5-methoxy-1H-benzimidazole (omeprazole),

2-[[[4-(3-methoxypropoxy)-3-methyl-2-pyridyl]methyl]sulfinyl]benzimidazole (rabeprazole), 5-(difluoromethoxy)-2-[[(3,4-dimethoxy-2-pyridyl)methyl]sulfinyl]-1H-benzimidazole (pantoprazole), or 5-methoxy-2-[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]-1H-Imidazo[4,5-b]pyridine (tenatoprazole) were modified by one of CONMeCH2CH2OCO2Et, CONMeCH2CH2OAc, and CONMeCH2CH2OCO2-(tetrahydropyranyl-4-yl) groups.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.93	184.50
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.80	-0.80

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